

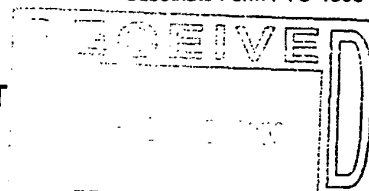
04-04-2000

RE

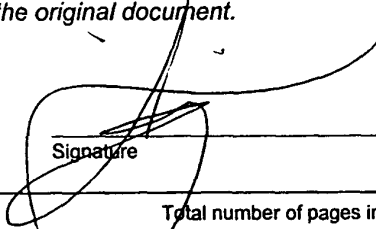


EET

101306010



Assistant Commissioner for Patents: Please record the attached original document(s) or copy(ies).

<b>1. Name of conveying party(ies):</b> Millennium BioTherapeutics, Inc. Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b> Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139  Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance:</b> <input type="checkbox"/> Assignment <input checked="" type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: December 21, 1999			
<b>4. Application number(s) or patent number(s):</b> If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: SEE ATTACHED APPENDIX "A" B. Patent No(s).: SEE ATTACHED APPENDIX "B" Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>5. Name/address of party to whom correspondence concerning document should be mailed:</b> ANITA L. MEIKLEJOHN, PH.D. Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804		<b>6. Total number of applications/patents involved:</b> 46 <b>7. Total fee (37 CFR §3.41):</b> \$1,840.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. <b>8. Deposit Account No.:</b> 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
DO NOT USE THIS SPACE			
<b>9. Statement and Signature:</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Anita L. Meiklejohn, Ph.D. Reg. No. 35,283 Name of Person Signing _____ <div style="text-align: center;">           Signature       </div> <div style="text-align: right;">         29 FEB 2000          Date       </div>			
Total number of pages including coversheet, attachments and document: <u>6</u>			

20030370.doc

04/03/2000 DNGUYEN 00000222 08643798

01 FC:581

1840.00 OP

## CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EL22803002545

I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

 February 29, 2000  
 Date of Deposit

 Samantha Bell  
 Signature

 Samantha Bell  
 Typed Name of Person Signing Certificate



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MAY 18, 2000

PTAS

FISH & RICHARDSON P.C.  
ANITA L. MEIKLEJOHN  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804



\*101306010A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/29/2000

REEL/FRAME: 010628/0752  
NUMBER OF PAGES: 6

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

MILLENNIUM BIO THERAPEUTICS, INC.

DOC DATE: 12/21/1999

**ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 08643798  
PATENT NUMBER:

FILING DATE: 05/07/1996  
ISSUE DATE:

SERIAL NUMBER: 09062391  
PATENT NUMBER:

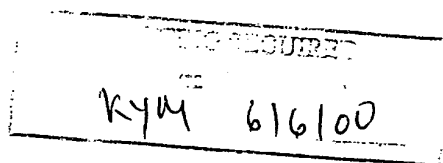
FILING DATE: 04/17/1998  
ISSUE DATE:

SERIAL NUMBER: 09283503  
PATENT NUMBER:

FILING DATE: 04/01/1999  
ISSUE DATE:

SERIAL NUMBER: 08753007  
PATENT NUMBER:

FILING DATE: 11/19/1996  
ISSUE DATE:



**RECEIVED**

JUN 02 2000

**FISH & RICHARDSON, P.C.  
BOSTON OFFICE**

SERIAL NUMBER: 09398496  
PATENT NUMBER:

FILING DATE: 09/17/1999  
ISSUE DATE:

SERIAL NUMBER: 08820364  
PATENT NUMBER:

FILING DATE: 03/12/1997  
ISSUE DATE:

SERIAL NUMBER: 08843652  
PATENT NUMBER:

FILING DATE: 04/16/1997  
ISSUE DATE:

SERIAL NUMBER: 08843651  
PATENT NUMBER:

FILING DATE: 04/16/1997  
ISSUE DATE:

SERIAL NUMBER: 08851160  
PATENT NUMBER:

FILING DATE: 05/05/1997  
ISSUE DATE:

SERIAL NUMBER: 08966269  
PATENT NUMBER: 6046000<sub>✓</sub>

FILING DATE: 11/07/1997  
ISSUE DATE: 04/04/2000

SERIAL NUMBER: 09436183  
PATENT NUMBER:

FILING DATE: 11/08/1999  
ISSUE DATE:

SERIAL NUMBER: 09146951  
PATENT NUMBER:

FILING DATE: 09/03/1998  
ISSUE DATE:

SERIAL NUMBER: 09128709  
PATENT NUMBER:

FILING DATE: 08/04/1998  
ISSUE DATE:

SERIAL NUMBER: 09127856  
PATENT NUMBER:

FILING DATE: 08/03/1998  
ISSUE DATE:

SERIAL NUMBER: 09354809  
PATENT NUMBER:

FILING DATE: 07/16/1999  
ISSUE DATE:

SERIAL NUMBER: 09130491  
PATENT NUMBER:

FILING DATE: 08/06/1998  
ISSUE DATE:

SERIAL NUMBER: 09388280  
PATENT NUMBER:

FILING DATE: 09/01/1999  
ISSUE DATE:

SERIAL NUMBER: 09388279  
PATENT NUMBER:

FILING DATE: 09/02/1999  
ISSUE DATE:

SERIAL NUMBER: 09057951  
PATENT NUMBER:

FILING DATE: 04/09/1998  
ISSUE DATE:

SERIAL NUMBER: 09065661  
PATENT NUMBER:

FILING DATE: 04/23/1998  
ISSUE DATE:

SERIAL NUMBER: 0909<sup>6</sup>5363  
PATENT NUMBER:

FILING DATE: 06/10/1998  
ISSUE DATE:

SERIAL NUMBER: 09143470  
PATENT NUMBER: 6043086

FILING DATE: 08/28/1998  
ISSUE DATE: 03/28/2000

SERIAL NUMBER: 09451828  
PATENT NUMBER:

FILING DATE: 11/30/1999  
ISSUE DATE:

SERIAL NUMBER: 09062389  
PATENT NUMBER:

FILING DATE: 04/17/1998  
ISSUE DATE:

SERIAL NUMBER: 09128155  
PATENT NUMBER:

FILING DATE: 08/03/1998  
ISSUE DATE:

SERIAL NUMBER: 09102705  
PATENT NUMBER:

FILING DATE: 06/22/1998  
ISSUE DATE:

SERIAL NUMBER: 09131263  
PATENT NUMBER:

FILING DATE: 08/07/1998  
ISSUE DATE:

SERIAL NUMBER: 09124538  
PATENT NUMBER:

FILING DATE: 07/29/1998  
ISSUE DATE:

SERIAL NUMBER: 09146950  
PATENT NUMBER:

FILING DATE: 09/03/1998  
ISSUE DATE:

SERIAL NUMBER: 09145056  
PATENT NUMBER:

FILING DATE: 09/01/1998  
ISSUE DATE:

SERIAL NUMBER: 09163523  
PATENT NUMBER:

FILING DATE: 09/30/1998  
ISSUE DATE:

SERIAL NUMBER: 09164220  
PATENT NUMBER:

FILING DATE: 09/30/1998  
ISSUE DATE:

SERIAL NUMBER: 09164169  
PATENT NUMBER:

FILING DATE: 10/02/1998  
ISSUE DATE:

SERIAL NUMBER: 09201442  
PATENT NUMBER: ✓

FILING DATE: 11/30/1998  
ISSUE DATE:

SERIAL NUMBER: 09224669  
PATENT NUMBER: ✓

FILING DATE: 12/31/1998  
ISSUE DATE:

SERIAL NUMBER: 09259387  
PATENT NUMBER:

FILING DATE: 02/26/1999  
ISSUE DATE:

SERIAL NUMBER: 09298531  
PATENT NUMBER:

FILING DATE: 04/23/1999  
ISSUE DATE:

SERIAL NUMBER: 09322790  
PATENT NUMBER:

FILING DATE: 05/28/1999  
ISSUE DATE:

SERIAL NUMBER: 09337930  
PATENT NUMBER:

FILING DATE: 06/22/1999  
ISSUE DATE:

SERIAL NUMBER: 09342767  
PATENT NUMBER:

FILING DATE: 06/29/1999  
ISSUE DATE:

010628/0752 PAGE 4

SERIAL NUMBER: 09363630  
PATENT NUMBER:

FILING DATE: 07/29/1999  
ISSUE DATE:

SERIAL NUMBER: 09369693  
PATENT NUMBER:

FILING DATE: 08/06/1999  
ISSUE DATE:

SERIAL NUMBER: 09387462  
PATENT NUMBER:

FILING DATE: 09/01/1999  
ISSUE DATE:

SERIAL NUMBER: 08752307  
PATENT NUMBER: 5952171

FILING DATE: 11/19/1996  
ISSUE DATE: 09/14/1999

SERIAL NUMBER: 08938365  
PATENT NUMBER: 5989909

FILING DATE: 09/26/1997  
ISSUE DATE: 11/23/1999

SERIAL NUMBER: 08991426  
PATENT NUMBER: 6013257

FILING DATE: 12/16/1997  
ISSUE DATE: 01/11/2000

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

REGISTRATION FORM COVER SHEET  
PATENTS ONLY

Assistant Commissioner for Patents: Please record the attached original document.

1. Name of conveying party(ies):  
S an A. McCarthy, Michael Joseph Kuranda,  
Christine Ellen Bulawa, and Steven Bossone

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:  
☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

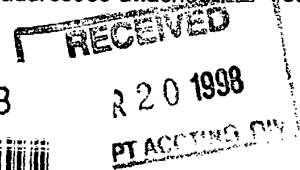
2. Name and address of receiving party(ies):  
MILLENNIUM BIOTHERAPEUTICS, INC.  
620 Memorial Drive  
Cambridge, MA 02142

Additional names/addresses attached? ☐ Yes ☒ No

04-27-1998



100695484



Execution Date: March 30, 1998; March 31, 1998;  
April 2, 1998; and April 9, 1998

4. Application number(s) or patent number(s):  
If this document is being filed with a new application, the execution date of the application is:  
A. Patent Application No.(s): 08/966,269  
B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

Anita L. Meiklejohn, Ph.D.  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40  
☒ Enclosed  
☐ Authorized to charge deposit account

8. Deposit account number: 06-1050  
If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

04/27/1998 JSHABAZZ 00000083 08966269

01 FC:581

40.00 DP

DO NOT USE THIS SPACE

9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Anita L. Meiklejohn, Ph.D.  
Name of Person Signing

Signature

Date

13 APRIL 1998

Total number of pages including cover sheet, attachments, and document: 4

Date of Deposit April 15, 1998  
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Carroll A. Amos



69404/032001  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER MS/097-018  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 19, 1998

PTAS

FISH & RICHARDSON P.C.  
ANITA L. MEIKLEJOHN, PH.D.  
225 FRANKLIN STREET  
BOSTON, MASSACHUSETTS 02110-2804

RECEIVED

\*100695484A\*

JUN 25 1998

FISH & RICHARDSON P.C.  
BOSTON, MA

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/20/1998

REEL/FRAME: 9115/0955  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MCCARTHY, SEAN A.

DOC DATE: 03/30/1998

ASSIGNOR:

KURANDA, MICHAEL JOSEPH

DOC DATE: 03/31/1998

ASSIGNOR:

BULAWA, CHRISTINE ELLEN

DOC DATE: 04/02/1998

ASSIGNOR:

BOSSONE, STEVEN

DOC DATE: 04/09/1998

ASSIGNEE:

MILLENNIUM BIOTHERAPEUTICS, INC.  
620 MEMORIAL DRIVE  
CAMBRIDGE, MASSACHUSETTS 02142

SERIAL NUMBER: 08966269

FILING DATE: 11/07/1997

PATENT NUMBER:

ISSUE DATE:

* No Document Required *	
Reviewed By Practice Systems	Initials: <i>mtw</i>
Reviewed By Filing Secretary	Initials: _____

9115/0955 PAGE 2

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS